

COPYING DATA BETWEEN SYSPLEXES USING STAGING VOLUME

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Submitted By: Linda Hull
Approved By: Ernie Chidester

These procedures document the process by which data is moved between sysplexes and the use of volumes allocated to more than one sysplex. There are three approved methods to accomplish this: FTP (File Transfer Process), TSO XMIT, and Data Set copy via a Staging Process. **None of these methods support VSAM datasets.** VSAM datasets must be dumped and restored using standard methods such as DFDSS or IBM Utilities. DFDSS dump and restore examples are provided in the Staging Process procedure.

Volumes STAGE1 and STAGE7 are the only share general purpose volumes designated exclusively for staging from one site to the other. STAGE1 will be used for staging data between the Salt Lake Sysplex (CPU0, CPU1, CPU2, CPU3, and CPU4) and the Richfield Sysplex (CPU5 and CPU6). STAGE7 will be used for staging data from the Salt Lake Sysplex to the Richfield Sysplex (CPU7). **Any data left on STAGE1 or STAGE7 for more than three days is subject to deletion without prior notice.**

To improve data integrity and performance, it is imperative that everyone discontinue use of all shared volumes unless specifically authorized (i.e., RSHR01, SHR001, etc.) **Unauthorized data residing on these volumes is subject to immediate deletion without notice.**

General Sysplex Data Set Naming Conventions: When allocating or copying data to different sysplexes, use proper naming conventions to identify the sysplex. This may require ITS Security personnel to authorize a new node. For example:

Sysplex1 (Production Salt Lake Site) DSN = DP.PSS.CNTL
Sysplex2 (Production Richfield Site) DSN = DP.PSSR.CNTL
Monoplex1 (Year2000 Richfield Site) DSN = DP.PSS7.CNTL

If you need assistance or additional information, please call the ITS Customer Service Center at 538-3440 and place a request for assistance from the Production Support Services DASD Group.

PROCEDURE

FTP (FILE TRANSFER PROCESS)

FTP is the recommended batch process used to move sequential DSN and PDS (member level only) between sites. Remember, this process does not support VSAM Data Sets. Valid ITSMFX codes are:

ITSMF2 (CPU2)
ITSMF3 (CPU3)
ITSMF (CPU4)
ITSMF5 (CPU5)

1. Set up JCL at the site from where you will send.
2. Sign on to the site where you will be sending.
3. Preallocate "TO" data set.

JCL Example to FTP to the Richfield Sysplex:

```
//DPXXX& JOB (ACCTXXX), 'DESC',  
//      REGION=0M,  
//      MSGCLASS=X  
//      CLASS=?,  
//      NOTIFY=DPXXX  
/*ROUTE PRINT XXX  
//STEP1      EXEC PGM=FTP,REGION=0M  
//SYSPRINT    DD SYSOUT=*  
//SYSPUT      DD SYSOUT=*,DCB=(LRECL=133,BLKSIZE=144)  
//SYSIN       DD *  
ITSMF5  
LOGONID      PASSWORD  
PUT 'DPXXX.CNTL(JOBCARD)' 'DP.PSSR.JCL(JOBCARD1)'  
CLOSE  
/*
```

TSO XMIT

1. From the Salt Lake Sysplex, go to ISPF, Option 6.
2. From Option 6 enter: XMIT DASDXX.USERID DA(dataset name)

Valid DASDXX codes are:

DASDP0	(CPU0)
DASDP1	(CPU2 or CPU3)
DASDV	(CPU4)
DASDP2	(CPU5 or CPU6)
DP2000	(CPU7)

This example will send the file to CPU5 or CPU6:

XMIT DASDP2.DPLWH DA(SAMPLE.JCL)

3. Sign on the Richfield Sysplex - the sysplex to which you sent the data.
4. From Option 6, enter: RECEIVE
5. If there are datasets to be received, the system will respond with this prompt:

Dataset TSOID.NONVSAM. TSOID from userid DASDXX. Enter restore parameters or 'delete' or 'End'.

Press the enter key. The dataset will keep the original name, but the HLQ will be replaced with your userid.

6. Options that can be used after the Enter key is pressed:

Rename dataset: DA(Newname.dataset)

Member of existing dataset: DA(Newname.PDS(MEMBER1))

Dataset already exists: Use DA(newname.xxx) or respond to duplicate message with 'R' to replace existing dataset.

STAGING PROCESS

1. From Sysplex1, go to ISPF Option 3.2
 - a. Display dataset to copy. This will obtain attributes needed for new dataset allocation.
Example: Current DSN='DP.PSS,CNTL'
 - b. Enter Option A (allocate) to allocate new dataset. Change volser parameter to: (STAGE1 or STAGE7). Press enter to allocate.
Example: New DSN='DP.PSS.CNTLX'
2. Go to ISPF Option 3.3
 - a. Enter Option C (copy). Enter **from** 'Data Set'.
Example: Current DSN = 'DP.PSS.CNTL(*)'
(*) is for a PDS data set. This will copy all members.
 - b. Enter **to** 'Data Set'.
Example: Preallocated DSN = 'DP.PSS.CNTLX'
 - c. Press Enter to copy.
3. Go to Sysplex2 -ISPF Option 3.2
 - a. Display dataset to copy. 'DP.PSS.CNTLX' Code volser to Display (STAGE1/STAGE7)
 - b. Enter Option M (allocate) to allocate new SMS dataset. Do not put in volser unless a volser has been provided by Production Support Services. Let SMS (System Managed Storage) pick the volser. (If a volser is required, use Option A.)
Example: New DSN = 'DP.PSSR.CNTL'
 - c. Press Enter to allocate.
4. Repeat Step 2 using **from** 'DP.PSS.CNTLX' **to** DSN 'DP.PSSR.CNTL'
5. Delete any data sets left on stage volumes. Data sets will need to be deleted from the site to which they were created and catalogued. For example, if data was sent from Salt Lake to Richfield, delete the data from the Salt Lake site. Due to the nature of the data that will reside on CPU7, STAGE7 has been secured to allow data copy **from** CPU0, CPU4, CPU5, or CPU6 **to** CPU7 only and will not allow the data to be staged back to the Production/Development sites.

DFDSS JCL EXAMPLE TO MOVE VSAM VIA STAGE VOLUMES

DUMP (from Salt Lake)

```
//PGM EXEC PGM=ADRDSSU,REGION=0M
//SYSPRINT DD SYSOUT=*
//OUTFILE DD UNIT=SYSDA,DISP=(OLD,KEEP,DELETE)
//          DSN=DP.XXX.DATASET.DUMP,
           SPACE=(CYL,(100,100,RLSE)
//SYSIN DD*
      DUMP -
          DATASET (INCLUDE(      -
                        MY.DATASET, -
                        HIS.DATASET, -
                        HER.DATASET)) -
          CONCURRENT              -
          ALLDATA(*)              -
          SPHERE                  -
          TOL(ENQF)               -
          OPTIMIZE                -
          OUTDD(OUTFILE)          -
```

RESTORE (to Richfield)

```
//PGM EXEC PGM=ADRDSSU,REGION=0M
//SYSPRINT DD SYSOUT=*
//INFILE DD UNIT=SYSDA,DISP=(OLD,KEEP,KEEP)
//          DSN=DP.XXX.DATASET.DUMP
//SYSIN DD*
      RESTORE -
          DATASET(INCLUDE(**)) -
          CATALOG              -
          STORCLAS(STANDARD)   -
          SPHERE               -
          ALLDATA(*)           -
          ALLEXCP              -
          OPTIMIZE(4)
```